

METHOD AND SYSTEM FOR EXTENSIBLE DATA PROCESSING**ABSTRACT OF THE INVENTION**

5 A system and method of assembling an application for processing
image or image-derived data is disclosed. The system includes a base operator
configured to interface with one or more derivative operator classes, each operator
class including an operator object for executing a processing function on the image or
image-derived data. A base multiport node class is provided, which is configured to
10 provide a multiport node for each operator object. The multiport nodes instantiates a
pluggable operator for connecting the multiport nodes together at runtime according
to user-defined parameters. The connection of multiport nodes implements the
processing functions of the operator objects to execute the application.

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